

Stellar Activity Cycles

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We give a summary of our recent results obtained with the technique of stellar surface imaging and from the analysis of long-term photometric observations. We show that long-lived nonaxisymmetric magnetic structures (active longitudes) are observed in different types of active stars. We discuss various indicators of the cyclic magnetic activity of stars and the Sun and suggest for a new tracer of cycles which is based on the periodic alternation of the active longitudes. Finally, we compare our results with the most recent magnetic dynamo calculations.